

MODELS: Waco ZGC-7 (Army UC-72E), 5 PCLB

T.C. NUMBER: ATC 627

Engine	Jacobs L-5, L-5M (magneto ignition) or L-5MB (magneto and battery ignition)
Placard limits	For all operations, 2000 rpm (285 hp)
Propeller	Maximum permissible diameter 103 inches (for clearance)
Placard speeds	Level flight or climb - 158 mph True Ind. Glide or dive - 214 mph True Ind. Flaps extended - 100 mph True Ind.
Fuel capacity	70 gallons (two tanks, one in each wing at 35 gallons) (-14)
Oil capacity	5 gallons (-50)
No. passengers	4 (front (-13), rear (+22))
Baggage	Passenger type - 100 lbs. (+52) Cargo type - 800 lbs. (See Item 203)
Standard weight	3500 lbs. (Serial numbers 4550 thru 4559) 3800 lbs. (Serial numbers 4560 and up. Serial numbers 4550 thru 4559 eligible upon receipt of manufacturer's affidavit of conformity.)
C.G. limits	(-18.9) and (-6.0)
Datum	Lower wing leading edge
Leveling means	Lower surface upper wing at strut points
Specification basis	Approved Type Certificate No. 627
Serial numbers	4550 and up manufactured prior to 9/30/39 and all AAF numbers eligible. Use manufacturer's number when available. Approval expired as of 9/30/39.

EQUIPMENT:

(* Means net increase)

Class I:

101. Engine ring cowl	29 lbs.	
102. Landing lights (Grimes retractable)	11 lbs.	
103. Starter (direct-electric)	20 lbs.	
104. Battery (Reading ARL-11)	35 lbs.	(-59)

105.	Heater and ventilator		
106.	Wheel cuffs		
107.	7.50-10 wheels (Hayes 750M hydraulic) with 7.50-10 tubes and 8.50-10 tires) (Wheels must be placarded for these tires.)		
108.	10.5 inch streamline tail wheel		
109.	Throw-over type control column		
110.	Generator (Eclipse LV-190)	18 lbs.	
111.	Standard paint (gunmetal gray)		
112.	Oil cooler (Drawing 20965)		
113.	Propeller - fixed pitch metal (Curtiss 55501)	55 lbs.	(-92)
Class II:			
200.	Miscellaneous items as noted in approved weight and balance report.		
201.	Air Corps type litter	25 lbs.	(+72)
202.	Parachute seats - rear	41 lbs.*	(+27)
203.	Cargo type with cargo compartment and large baggage door (See NOTE 2)	36 lbs.*	
Class III:			
301.	(a) 95 gallon fuel capacity (two tanks at 47-1/2 gallons each)	18 lbs.*	(-14)
	(b) Additional 25 gallon fuel tank installed under rear seat (including gauge and wobble pump) (eligible as 4-place type only)	23 lbs.	(+9)
302.	6 or 7-1/2 gallon oil capacity		(-50)
303.	Wheel streamlines	22 lbs.	(-27)
304.	(a) Leather upholstery	12 lbs.	(0)
	(b) Leather seats	5 lbs.	(0)
305.	Engine shielding	11 lbs.	(-68)
306.	Radio equipment		
	(a) 94 lbs. provided C.G. of instal- lation is between (-19) and (+41) or		
	(b) 56 lbs. between (-19) and (+52) and 38 lbs. between (-19) and (+25)		
307.	Special paint		(+17)
	(a) Aluminum	No weight change	
	(b) Blue	7 lbs.*	
	(c) Black	36 lbs.*	
	(d) Vermillion	40 lbs.*	
	(e) White	48 lbs.*	
	(f) French grey	51 lbs.*	
308.	Cactus-proof tubes	12 lbs.*	(-27)
309.	Miscellaneous extra instruments	25 lbs.	(-43)
310.	Pressure fire extinguisher		
	(a) 15 lbs. (-45) or,		
	(b) 19 lbs. (+7) (tank under rear seat)		
311.	Tail wheel lock	Neglect weight increase	
312.	Flares (three 1-1/2 minute, electric)	17 lbs.	(+78)
313.	Parachute seats - front (Waco-Switlik)	30 lbs.*	(+13)
314.	Extra door and wing walk	16 lbs.*	(+19)
315.	"Y" type control column	4 lbs.*	(-33)
316.	Propeller		
	(a) Wood (fixed pitch)	Net decrease 9 lbs.	(-92)
	(b) Hamilton Standard hub 2B20, blades 6135A-9 or 6135A-10. Diameter 8'3-1/8" maximum, 8'7/8" minimum.	50 lbs.*	(-92)
317.	Large generator (Eclipse D-2)	26 lbs.	(-55)
318.	Large starter		(-55)
319.	Large battery (Reading AR-9)	15 lbs.*	(-59)
320.	Vacuum pump	4 lbs.	(-53)
321.	Precision litter (carried in baggage compartment as baggage)	25 lbs.	
322.	Skis	Use actual weight change	
	(a) Grab and Smith or Wien GS-1		

NOTE 1. Eligible for export as follows, subject to inspection for equipment specified in Chapter XII of Inspection Handbook (9/30/39):

(a) Canada

- Landplane
- Skiplane - not eligible. However, structure complies with Canadian requirements for ski installation. Maximum ski height 14-1/2 inches, maximum tread 97-1/2 inches.

(b) All other countries.

NOTE 2. Weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be submitted for each cargo type aircraft with original inspector's report and each subsequent report covering changes in Class I or Class II equipment.